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10/606,478	06/26/2003	Sandeep Bhatia	14251US02	5641

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EXAMINER	
RAO, ANAND SHASHIKANT	
ART UNIT	PAPER NUMBER
2621	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/606,478	BHATIA ET AL.	
	Examiner	Art Unit	
	Andy S. Rao	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *01 July 2008*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-16,18 and 27* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-16, 18, 27* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/1/08 has been entered.

2. Applicant's arguments with respect to claims 1-16, 18, and 27 as filed on 7/01/08 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1, 8-10, and 18 rejected under 35 U.S.C. 102(e) as being anticipated by Kono et al., (hereinafter referred to as "Kono") in view of Aharoni et al., (hereinafter referred to as "Aharoni"), and further in view of Washino et al., (hereinafter referred to as "Washino").

Kono discloses a system for displaying images on a display (Kono: figures 2-3), said system comprising: a decoder for decoding encoded images and parameters associated with the images, thereby resulting in decoded images and decoded parameters associated with the decoded images (Kono: column 2, lines 20-25); image buffers for storing the decoded images

(Kono: column 2, lines 28-37); parameter buffers for storing the decoded parameters associated with the images (Kono: column 2, lines 55-62); and a display engine for receiving the decoded parameters from the parameter buffers and providing the decoded images for display using the decoded parameters stored in the parameter buffers (Kono: column 3, lines 20-30), as in claim 1. However, Kono fails to specifically disclose the use of a plurality of image buffers and a corresponding plurality of parameters buffers or being operative to display multiple images on a single display, as in the claim. Aharoni discloses system for adaptive video/audio transport (Aharoni: figure 1) of compressed video files (Aharoni: column 8, lines 50-65) for display (Aharoni: column 11, lines 25-45) in order to caters to transmission and display requirements of multiple clients with varying resources (Aharoni: column 17, lines 1-17; column 18, lines 40-65). Accordingly, given this teaching, would have been obvious for one of ordinary skill in the art at the time of the invention to combine Kono system with the multi-client platform of Aharoni and provide a plurality of image buffers and associated parameter buffers of Kono with the various client service levels for Aharoni in order to for greater distribution of decoded images of a heterogeneous network (Aharoni: column 7, lines 20-45), as not only would this represent reasoning that logically flows from both teachings, but furthermore would represent nothing more than a the duplication of parts (i.e. image buffers and associated parameter buffers) for a multiplied effect over the primary Kono reference, a modification that the courts have long held as being readily within the purview of one of ordinary skill in the art and therefore unpatentable, *St. Regis Paper Co. v. Bemis Co., Inc., 193 USPQ 8, 11 (7th Cir. 1977).* The Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established

legal precedence, has a majority of the features of the claim, but still fails to address the "…on a single display…" as in claim 1. Washino discloses a video conferencing and mentoring system which discloses displaying multiple images on a single display (Washino: column 5, lines 50-67; column 6, lines 1-40) and further discloses its possible usage with MPEG compression/decompression techniques (Washino: column 7, lines 40-50) in order to allow for multiple video outputs to a single display such as multiple perspectives/versions of the same video signal (Washino: column 9, lines 60-67; column 10, lines 1-24). Accordingly, given this teaching, it would have been obvious for one of ordinary skill in the art at the time of the invention to incorporate the teaching of Washino's multiple image display on a single display into the Kono-Aharoni combination in order to allow for a display at its receiving end to display multiple images on that singular display such that different perspectives/versions of the same signal can be displayed thereon. The Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and modified with the Washino multiple image display on a singular display, has all of features of claim 1.

Regarding claim 8, the Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence, discloses wherein the encoded images comprise compressed images (Kono: column 1, lines 20-40), as in the claim.

Regarding claim 9, the Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and modified with the Washino

multiple image display on a singular display, discloses wherein the parameters are encoded with a variable length code, and wherein the decoder decodes the variable length code (Kono: column 4, lines 30-57: MPEG video decoder having a conventional structure inherently incorporates variable length decoding), as in the claim.

Kono discloses a circuit for displaying images on a display (Kono: figures 2-3_, said circuit comprising: a decoder (Kono: column 2, lines 20-25); image buffers connected to the decoder and configured to store images decoded by the decoder (Kono: column 2, lines 28-37); parameter buffers connected to the decoder and configured to store parameters associated with the images and decoded by the decoder (Kono: column 2, lines 55-62); and a display engine connected to the image buffers and the parameter buffers and configured to receive the decoded parameters from the parameter buffers and providing the decoded images for display using the decoded parameters stored in the parameter buffers (Kono: column 3, lines 20-30), as in claim 10. However, Kono fails to specifically disclose the use of a plurality of image buffers and a corresponding plurality of parameters buffers or being operative to display multiple images on a single display, as in the claim. Aharoni discloses system for adaptive video/audio transport (Aharoni: figure 1) of compressed video files (Aharoni: column 8, lines 50-65) for display (Aharoni: column 11, lines 25-45) in order to caters to transmission and display requirements of multiple clients with varying resources (Aharoni: column 17, lines 1-17; column 18, lines 40-65). Accordingly, given this teaching, would have been obvious for one of ordinary skill in the art at the time of the invention to combine Kono system with the multi-client platform of Aharoni and provide a plurality of image buffers and associated parameter buffers of Kono with the various client service levels for Aharoni in order to for greater distribution of decoded images of a

heterogeneous network (Aharoni: column 7, lines 20-45), as not only would this represent reasoning that logically flows from both teachings, but furthermore would represent nothing more than a the duplication of parts (i.e. image buffers and associated parameter buffers) for a multiplied effect over the primary Kono reference, a modification that the courts have long held as being readily within the purview of one of ordinary skill in the art and therefore unpatentable, *St. Regis Paper Co. v. Bemis Co., Inc., 193 USPQ 8, 11 (7th Cir. 1977).* The Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence, has a majority of the features of the claim, but still fails to address the "…on a single display…" as in claim 10. Washino discloses a video conferencing and mentoring system which discloses displaying multiple images on a single display (Washino: column 5, lines 50-67; column 6, lines 1-40) and further discloses its possible usage with MPEG compression/decompression techniques (Washino: column 7, lines 40-50) in order to allow for multiple video outputs to a single display such as multiple perspectives/versions of the same video signal (Washino: column 9, lines 60-67; column 10, lines 1-24). Accordingly, given this teaching, it would have been obvious for one of ordinary skill in the art at the time of the invention to incorporate the teaching of Washino's multiple image display on a single display into the Kono-Aharoni combination in order to allow for a display at its receiving end to display multiple images on that singular display such that different perspectives/versions of the same signal can be displayed thereon. The Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform

distribution system of Aharoni and in accordance with established legal precedence and modified with the Washino multiple image display on a singular display, has all of features of claim 10.

Regarding claim 18, the Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and modified with the Washino multiple image display on a singular display, discloses wherein the parameters are encoded with a variable length code, and wherein the decoder decodes the variable length code (Kono: column 4, lines 30-57: MPEG video decoder having a conventional structure inherently incorporates variable length decoding), as in the claim.

5. Claims 2-7, 11, 17, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al., (hereinafter referred to as "Kono") in view Aharoni and Washino as applied above to claims 1 and 10 and further in view of Wu.

The Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and modified with the Washino multiple image display on a singular display, has a majority of the features of claim 2, as has been discussed above regarding claim 1. However, the Kono-Aharoni-Washino combination fails to disclose wherein the encoded images and the parameters associated with the images form portions of data packets, as in the claims. Wu discloses a display master control for which incorporates an MPEG decoder (Wu: column 7, lines 40-56; column 6, lines 25-60) and further discloses the use of packetization (Wu: column 7, lines 35-50) in order to generate sub-pictures with on screen data (Wu: column 8, lines 8-25). Accordingly, given this teaching, it would have

been obvious at the time of the invention to incorporate the teaching of Wu's use of packetization into the Kono-Aharoni-Washino system in order to have the composite system be able to generate sub-pictures with on screen data. The Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has all of the features of claim 2.

Regarding claim 3, the Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has wherein the data packets comprise headers, wherein the headers comprise the parameters (Kono: column 17, lines 25-35), as in the claim.

Regarding claim 4, the Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has the headers comprise picture layer headers (Kono: column 17, lines 25-35), as in the claim

Regarding claim 5, the Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has

wherein the headers comprise sequence layer headers (Kono: column 17, lines 25-35), as in the claim.

Regarding claim 6, the Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has wherein the first headers comprise a portion of the parameters, and wherein the second headers comprise another portion of the parameters (Kono: column 17, lines 25-35; column 2, lines 3-15), as in the claim.

Regarding claim 7, the Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has wherein the first headers comprise picture layer parameters and wherein the second headers comprise sequence layer parameters (Kono: column 2, lines 3-15), as in the claim.

The Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and modified with the Washino multiple image display on a singular display, has a majority of the features of claim 11, as has been discussed above concerning claim 10. However, the Kono-Aharoni-Washino combination fails to disclose wherein the encoded images and the parameters associated with the images form portions of data packets, as in the claims. Wu discloses a display master control for which

incorporates an MPEG decoder (Wu: column 7, lines 40-56; column 6, lines 25-60) and further discloses the use of packetization (Wu: column 7, lines 35-50) in order to generate sub-pictures with on screen data (Wu: column 8, lines 8-25). Accordingly, given this teaching, it would have been obvious at the time of the invention to incorporate the teaching of Wu's use of packetization into the Kono-Aharoni-Washino system in order to have the composite system be able to generate sub-pictures with on screen data. The Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has all of the features of claim 11.

Regarding claim 12, the Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has wherein the headers comprise the parameters (Kono: column 17, lines 25-35), as in the claim.

Regarding claim 13, the Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has wherein the headers comprise picture layer headers (Kono: column 17, lines 25-35), as in the claim

Regarding claim 14, the Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has wherein the headers comprise sequence layer headers (Kono: column 17, lines 25-35), as in the claim.

Regarding claim 15, the Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has wherein the first headers comprise a portion of the parameters, and wherein the second headers comprise another portion of the parameters (Kono: column 17, lines 25-35; column 2, lines 3-15.

Regarding claim 16, the Kono circuit based system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and with the Washino multiple image display on a singular display and further incorporating the Wu packetization teaching, has wherein the first headers comprise picture layer parameters and wherein the second headers comprise sequence layer parameters (Kono: column 2, lines 3-15), as in the claim.

The Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni

and in accordance with established legal precedence and modified with the Washino multiple image display on a singular display, has a majority of the features of claim 27, as has been discussed above regarding claim 1. However, the Kono-Aharoni-Washino combination fails to disclose that the wherein the decoded parameters include at least one parameters also includes a presentation time stamp, as in the claim. Wu discloses a display master control for which incorporates an MPEG decoder (Wu: column 7, lines 40-56; column 6, lines 25-60) and further discloses the use of packetization (Wu: column 7, lines 35-50) including the use of presentation time stamps (Wu: column 8, lines 55-65) in order to generate sub-pictures with on screen data (Wu: column 8, lines 8-25). Accordingly, given this teaching, it would have been obvious at the time of the invention to incorporate the teaching of Wu's use of packetization including presentation time stamps into the Kono-Aharoni-Washino system in order to have the composite system be able to generate sub-pictures with on screen data. The Kono system, now modified with a plurality of image buffers and associated parameter buffers for implementation of the multi-client platform distribution system of Aharoni and in accordance with established legal precedence and modified with the Washino multiple image display on a singular display and further incorporating Wu packetization teaching including presentation time stamps, has all of the features of claim 27.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (571)-272-7337. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571)-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andy S. Rao
Primary Examiner
Art Unit 2621

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